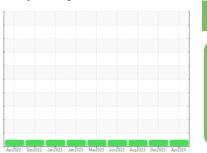


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

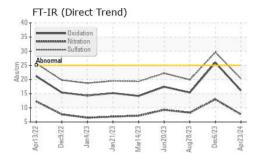
## **Fluid Condition**

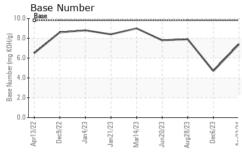
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

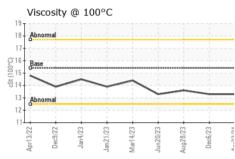
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092595	GFL0092558	GFL0092571
Sample Date		Client Info		23 Apr 2024	06 Dec 2023	28 Aug 2023
Machine Age	hrs	Client Info		9548	8601	7890
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	8	33	10
Chromium	ppm	ASTM D5185m	>5	0	1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	6	2
Lead	ppm	ASTM D5185m	>30	0	0	2
Copper	ppm	ASTM D5185m	>150	5	1	0
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	51	55	56
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	812	836	900
Calcium	ppm	ASTM D5185m	1070	1116	1031	1139
Phosphorus	ppm	ASTM D5185m	1150	975	920	962
Zinc	ppm	ASTM D5185m	1270	1163	1158	1223
Sulfur	ppm	ASTM D5185m	2060	3241	2669	3505
CONTAMINANT	TC	and a the seal	11		history1	historv2
	10	method	limit/base	current	Thistory	
Silicon	ppm		>20	3	5	3
Silicon Sodium				34.131.1	1110101 9 1	3
	ppm	ASTM D5185m		3	5	
Sodium	ppm	ASTM D5185m ASTM D5185m	>20	3 1	5 7	3
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20	3 1 3	5 7 10	3 6
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>20 >20 limit/base	3 1 3 current	5 7 10 history1	3 6 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>20 >20 limit/base >3	3 1 3 current	5 7 10 history1 2.6	3 6 history2 0.5
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>20 >20 limit/base >3 >20	3 1 3 current 0.9 7.7	5 7 10 history1 2.6 13.0	3 6 history2 0.5 8.3
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >20 limit/base >3 >20 >30	3 1 3 current 0.9 7.7 20.3	5 7 10 history1 2.6 13.0 29.6	3 6 history2 0.5 8.3 19.9



# **OIL ANALYSIS REPORT**



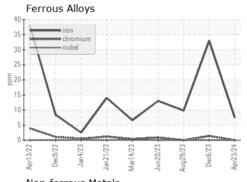


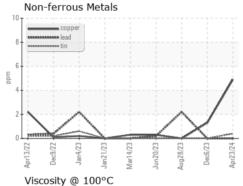


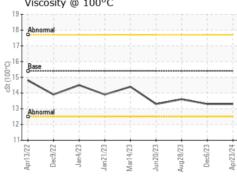
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

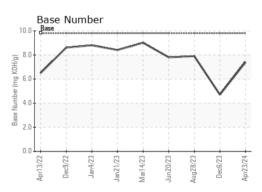
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.3	13.6	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0092595 Lab Number : 06160154 Unique Number : 10995577

Test Package : FLEET

Received : 25 Apr 2024 **Tested** : 26 Apr 2024

Diagnosed : 26 Apr 2024 - Wes Davis

GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL

US 32824

T:

F:

Contact: DAWN WALLACE

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL885 [WUSCAR] 06160154 (Generated: 04/26/2024 07:35:42) Rev: 1

Submitted By: TIMOTHY MOURER